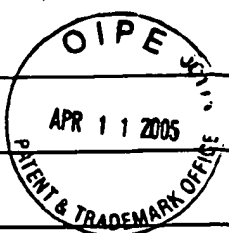
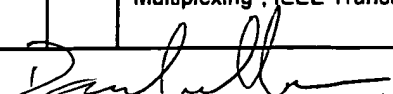
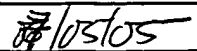
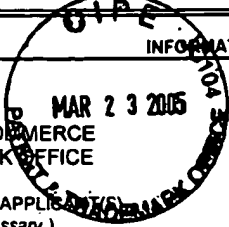
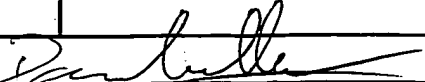


Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: April 11, 2005		ATTY DOCKET NO. 2000_1390		SERIAL NO. 09/677,420			
		APPLICANT Mitsuaki OSHIMA et al.					
		FILING DATE October 5, 2000		GROUP 2634			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
FOREIGN PATENT DOCUMENTS							
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO		
AJ							
AK							
AL							
AM							
AN							
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
DA	AO	J. A. C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, Vol. 28, May 1990, pages 5-8 and 11-14					
DA	AP	B. Hirosaki, "An Orthogonally Multiplexed QAM System Using the Discrete Fourier Transform", IEEE Transactions on Communications, Vol. Com-29, No. 7, July 1981, pages 982-989					
DA	AQ	L. J. Cimini, Jr., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing", IEEE Transactions on Communications, Vol. Com-33, No. 7, July 1985, pages 665-675 and Annex					
EXAMINER 			DATE CONSIDERED 				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

Sheet 1 of 3		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified)		ATTY DOCKET NO. 2000_1390				SERIAL NO. 09/677,420	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Mitsuaki OSHIMA et al.					
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		FILING DATE October 5, 2000				GROUP 2634	
Date Submitted to PTO: March 23, 2005							
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DA	AA	3,824,548	7-16-74	Sullivan et al.	—	—	—
	AB	3,959,726	5-25-76	Hinoshita et al.	—	—	—
	AC	4,303,939	12-1-81	Stephens et al.	—	—	—
	AD	4,303,941	12-1-81	Marti et al.	—	—	—
	AE	4,309,726	1-5-82	Tanaka et al.	—	—	—
	AF	4,535,352	8-85	Haskell	—	—	—
	AG	4,564,858	1-14-86	Resch	—	—	—
	AH	4,581,639	4-8-86	Judge	—	—	—
	AI	4,769,819	9-6-88	Matsutani et al.	—	—	—
	AJ	4,794,447	12-27-88	Tsinberg	—	—	—
	AK	4,817,192	3-28-89	Phillips et al.	—	—	—
	AL	5,029,003	7-91	Jonnalagadda	—	—	—
	AM	5,134,464	7-28-92	Basile et al.	—	—	—
DA	AN	5,400,084	3-21-95	Scarpa	—	—	—
	AO						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AP						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AQ						
	AR						
EXAMINER				DATE CONSIDERED 07/05/05			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

Sheet 2 of 3		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: March 23, 2005				ATTY DOCKET NO. 2000_1390		SERIAL NO. 09/677,420	
				APPLICANT Mitsuaki OSHIMA et al.			
				FILING DATE October 5, 2000		GROUP 2634	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	5,181,112	1-19-93	Citta et al.	_____	_____	_____
	AB	5,377,051	12-27-94	Lane et al.	_____	_____	_____
	AC	5,576,902	11-19-96	Lane et al.	_____	_____	_____
	AD	5,218,622	6-8-93	Fazel et al.	_____	_____	_____
	AE	5,561,468	10-1-96	Bryan et al.	_____	_____	_____
	AF	5,802,241	9-1-98	Oshima	_____	_____	_____
	AG	5,007,088	4-9-91	Ooi et al.	_____	_____	_____
DH	AH	5,170,413	12-8-92	Hess et al.	_____	_____	_____
	AI						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DH	AJ	3-69295	3-25-91	Japan	_____	_____	X
DH	AK	2-260726	10-23-90	Japan	_____	_____	X
DH	AL	58-161427	9-26-83	Japan	_____	_____	abstract
DH	AM	57-39629	3-4-82	Japan	✓	_____	abstract
DH	AN	58-161547	9-26-83	Japan	_____	_____	abstract
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AO						
	AP						
	AQ						
EXAMINER 				DATE CONSIDERED 07/05/05			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

Sheet 3 of 3

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT
(Use several sheets if necessary)

Date Submitted to PTO: March 23, 2005

ATTY DOCKET NO.
2000_1390

SERIAL NO.
09/677,420

APPLICANT
Mitsuaki OSHIMA et al.

FILING DATE
October 5, 2000

GROUP
2634

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	5,128,758	7-7-92	Azadegan et al.	_____	_____	_____
	AB	5,038,402	8-6-91	Robbins	_____	_____	_____
	AC	5,638,112	6-10-97	Bestler et al.	_____	_____	_____
	AD	5,063,445	11-5-91	Nishizawa et al.	_____	_____	_____
	AE	5,819,000	10-6-98	Oshima	_____	_____	_____
	AF	5,999,569	12-7-99	Oshima	_____	_____	_____
	AG	5,892,879	4-6-99	Oshima	_____	_____	_____
	AH	6,049,651	4-11-00	Oshima	_____	_____	_____
DA	AI	6,256,357	7-3-01	Oshima	_____	_____	_____

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
DA	AJ	63-180222	7-25-88	Japan			abstract	
DA	AK	2-94814	4-5-90	Japan	_____	_____	abstract	
DA	AL	61-70861	4-11-86	Japan	_____	_____	abstract	
DA	AM	2-218279	8-30-90	Japan	_____	_____	abstract	
DA	AN	2,095,435	5-10-92	Canada	_____	_____	X	
DA	AO	91/20137	12-26-91	WO	_____	_____	X	
DA	AP	92/22162	12-10-92	WO	_____	_____	X	

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AQ

EXAMINER *[Signature]*

DATE CONSIDERED 07/05/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: July 20, 2004

ATTY DOCKET NO.
2000_1390SERIAL NO.
09/677,420APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
October 5, 2000GROUP
2634

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>DA</i>	AJ	2-154583	6-13-90	Japan			abstract
	AK						
	AL						
	AM						
	AN						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>DA</i>	AO	Shigeki MORIYAMA et al., "Delay Propagation Characteristics at VHF and UHF bands in Urban Area", 1991 Spring National Convention Record, The Institute of Electronics, Information and Communication Engineers, Part 2, p. 406, March 15, 1991
<i>DA</i>	AP	Yasuhiro ITO et al., "Adaptive Weighted Code Division Multiplexing (AW-CDM) Transmission System for Terrestrial Digital Television Broadcasting", ITE Technical Report Vol. 17, No. 13, pp 27-32, February 25, 1993
	AQ	
EXAMINER	<i>Daan Luller</i>	
	DATE CONSIDERED	<i>07/05/05</i>

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.